

Remarks/Arguments:

Claims 1, 4-6, 9, 12-14 and 17-19 are presently pending, with all pending claims rejected. Applicant herein amends claims 1, 9, 17 and 18 and adds new claim 20. Support for the claim amendments and the added claim can be found throughout the application as originally filed. For example, see Figs. 1 and 9 and the corresponding description found at page 8, line 21 to page 9, line 3 and at page 12, line 10 to page 13, line 5. No new matter is added. Reconsideration is respectfully requested in view of the above amendments and the following remarks.

Examiner Interview

Applicant appreciates the courtesy of an examiner interview extended by Examiner McNally, which was held on June 9, 2010. As set forth in the Interview Summary prepared by the Examiner, indicating that the revocation integrator is separate from the contents transmitting device and receiving device would likely distinguish over Komuro. Applicant has introduced such an amendment to the independent claims.

Claim Objections

Section 5 of the Office Action recites that "claims 9 and 12-14 are objected to because: Claim 9 recites 'a network for sucking up revocation information,'" and claims 12-14 are rejected for depending from claim 9. Applicant herein amends claim 9 to replace the phrase "sucking up" with the term "receiving." Applicant contends that claim 9 as amended addresses the informality raised in the Office Action and respectfully requests that the objection to claims 9 and 12-14 be withdrawn.

Claims Rejection under 35 U.S.C. § 112

Section 7 of the Office Action recites that "claims 9, 12-14 and 18 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite." In particular, as set forth in section 8 of the Office Action, the Office Action objects to the "means" language found in claims 9 and 18, and to claims 12-14 for depending from claim 9. Although not conceding the rejection, Applicant herein amends claims 9 and 18 to remove the "means" language in order to expedite prosecution. Accordingly, Applicant respectfully requests that the rejection of claims 9, 12-14 and 18 under 35 U.S.C. § 112, second paragraph, be withdrawn.

Claim Rejections under 35 U.S.C. § 103

Section 11 of the Office Action recites that "Claims 1, 5, 9 and 11-13 and 17-19 are rejected under 35 U.S.C. § 103(a) as being unpatentable over European Patent Application Publication No. EP 0930556 by Komuro et al. in view of US Patent No. 7,225,164 to Cadelore et al." Applicant respectfully traverses. Although not conceding the rejection, Applicant herein amends claims 1, 9, 17 and 18 to expedite prosecution. Applicant notes that claim 11 was canceled in a prior Amendment and claim 12 is addressed in Section 12 of the Office Action. Accordingly, Applicant's comments concerning the rejections raised in Section 11 of the Office Action will be limited to claims 1, 5, 9, 13, and 17-19.

Claim 1 includes at least one feature that is not disclosed, taught or suggested by Komuro in view of Cadelore. Claim 1 is directed to a revocation information transmission method used in a system including a plurality of contents transmitting device for transmitting content and a plurality of contents receiving devices for receiving contents on a network. The amended method of claim 1 includes, *inter alia*, the steps of:

... individually uploading revocation information including key information of mutual authentication failure from each of the contents transmitting devices or each of the contents receiving devices in case of mutual authentication failure to a revocation integrator that is separate from the plurality of contents transmitting devices and the plurality of contents receiving devices;

... integrating, with the revocation integrator, the revocation information from each of the contents transmitting devices with the revocation information from each of the contents transmitting devices, has an integrated revocation list representing a common list of revocations for the contents receiving devices and the contents transmitting devices on the network;

... packetizing the integrated revocation list and multiplexing the packetized revocation list into a stream;

... transmitting the stream to the contents transmitting devices on the network.

In accordance with the embodiment of the invention set forth in claim 1, revocation information is uploaded from contents transmitting devices such as set top boxes or contents receiving devices such as displays to a revocation integrator that is separate from the contents

transmitting devices and the contents receiving devices. The revocation integrator integrates the revocation information from each of the contents transmitting devices with the revocation information from each of the contents transmitting devices as an integrated revocation list. The integrated revocation list is then packetized and multiplexed into a stream and transmitted to the contents transmitting devices.

The Office Action relies on Komuro to disclose uploading revocation information from contents transmitting devices and contents receiving devices to a revocation integrator, integrating the revocation information with the revocation integrator, and transmitting the stream to the contents transmitting devices on the network. The Office Action refers to Fig. 11, paragraph 71, and paragraphs 87-94 of Komuro to disclose these features. Fig. 11 of Komuro depicts a management center 110 that produces a revocation list 111. The revocation list is transmitted to a data broadcasting reception apparatus 130 including a tuner, various storage elements, and a network connection. The reception apparatus 130 is connected to other devices such as DVD player 1, personal computer 2, and magneto-optical disc apparatus 3. Each of the devices on the network include a device ID (device_ID).

As described at paragraphs 87-89 of Komuro, the management center 110 generates and transmits the revocation list to the data broadcasting reception apparatus 130. As described at paragraph 90, the data broadcast reception apparatus 130 receives the revocation list from the management center 110 and stores the revocation list in a storage device. As described in paragraphs 91-94, the data broadcast reception apparatus 130 reads out device IDs of all the apparatus connected to the bus. The data broadcast reception device 130 then compares these IDs to the revocation list and makes a determination as to whether it should transmit a key for deciphering data. Thus, a one way system is disclosed in which a revocation list is only transmitted from a management center 110 to a contents reception apparatus 130. These portions of Komuro, however, are entirely devoid of uploading revocation information from contents transmitting or receiving devices to a revocation integrator, let alone integrating the revocation information from the contents transmitting devices with the revocation integrator and transmitting a stream representing the integrated revocation list to the transmitting devices.

In the Response to Argument section of the Office Action, the Office Action further relies on paragraph 110 to disclose individually uploading revocation information from contents transmitting devices to a revocation integrator. Applicant respectfully disagrees. Paragraph

110 of Komuro describes a system in which the data broadcasting reception apparatus 130 receives device IDs from connected devices, compares the device IDs to the revocation list and, as described at paragraph 109, transmits a key and encipherment data to a device if the device is a "legal" device. Thus, uploading of revocation information to a revocation integrator is not disclosed by this portion of Komuro.

Also, Applicant has amended claim 1 to specify that the revocation integrator is separate from the plurality of contents transmitting devices and the plurality of contents receiving devices in accordance with the suggestion set forth in the Examiner's Interview Summary to further distinguish claim 1 from Komuro.

Furthermore, Cadelore fails to make up for the deficiencies of Komuro.

Accordingly, Applicant contends that Komuro and Cadelore (either alone or in combination) fail to disclose, teach or suggest at least the steps of uploading revocation information from contents transmitting and receiving devices to a separate revocation integrator, integrating the revocation information with the revocation integrator, and transmitting the integrated revocation list as a multiplexed and packetized stream to the contents transmitting devices as set forth in claim 1. Therefore, Applicant contends that claim 1 is allowable over Komuro in view of Cadelore and respectfully requests that the rejection of claim 1 be withdrawn.

Claims 9, 17, and 18, though not identical to claim 1, include features similar to the allowable features discussed above with respect to claim 1. Accordingly, Applicant contends that claims 9, 17, and 18 are allowable for at least reasons similar to the reasons claim 1 is allowable and requests that the rejection of claims 9, 17, and 18 be withdrawn.

Claims 5, 13, and 19 each depend from one of claims 1 and 9, and thus include all of the features of the claims from which they depend. Accordingly, Applicant contends that claims 5, 13, and 19 are allowable for at least the reasons described above that claims 1 and 9 are allowable.

Section 12 of the Office Action recites that "Claims 4 and 12 are rejected under 35 U.S.C. § 103(a) as being unpatentable over European Patent Application Publication No. EP 0930556 by Komuro et al. in view of US Patent No. 7,225,164 to Cadelore et al. further in view of US Patent Application Publication No. 2004/0054892 by Ji et al." Ji is relied on in the

Office Action to teach transmission of the integrated revocation list using a data structure of a PES packet of an MPEG transport stream. Applicant contends, however, that the addition of Ji fails to make up for the deficiencies of Komuro and Cadelore described above. Accordingly, Applicant contends that claims 4 and 13 are allowable over Komuro in view of Cadelore and further in view of Ji for at least the reasons described above that claims 1 and 9 are allowable.

Section 13 of the Office Action recites that "Claims 6 and 14 are rejected under 35 U.S.C. § 103(a) as being unpatentable over European Patent Application Publication No. EP 0930556 by Komuro et al. in view of US Patent No. 7,225,164 to Cadelore and further in view of US Patent No. 5,692,124 by Holden et al." Holden is relied on in the Office Action to teach transmission of the integrated revocation list using an IP packet. Applicant contends, however, that the addition of Holden fails to make up for the deficiencies of Komuro and Cadelore as discussed above with respect to claims 1 and 9. Accordingly, Applicant contends that claims 6 and 14 are allowable over Komuro in view of Cadelore and further in view of Holden for at least the reasons described above that claims 1 and 9 are allowable.

New Claim

Applicant herein adds new claim 20. New claim 20 includes the features of claim 1 described above along with the features of dependent claims 4, 5 and 6. Accordingly, Applicant contends that claim 20 is allowable for at least the reason that claim 1 described above is allowable.

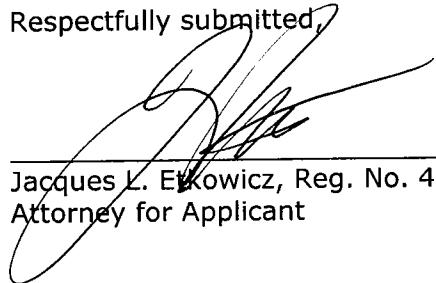
Appln. No.: 10/549,423
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Conclusion

In view of the above amendments and remarks, Applicant contends that the application is in condition for allowance. Notification of such is earnestly solicited.

Respectfully submitted,


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